

SEQUENCE LISTING

<110> NELSON, DAVID R.

5 <120> A LIVE, AVIRULENT STRAIN OF V. ANGUILLARUM THAT  
PROTECTS FISH AGAINST INFECTION BY VIRULENT V.  
ANGUILLARUM

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<170> PatentIn Ver. 2.1

20 <210> 1  
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<212> DNA  
<213> V. Anguillarum

25 <220>  
<223> "n" bases may be a, t, c, g, other or unknown

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50 Cys Leu Asn Lys Trp Lys Ile Leu Ser Asp Ser Leu Tyr Glu Gln Phe  
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85 90 95

Gln Phe Leu Leu Asp Thr Thr Leu Glu Ser Ala Ala Asn Ser Leu Glu

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40	Ala Glu Ala Lys Thr Val Glu Gln Glu Val Ala	Glu Ser Ser Val Ser		
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45	Glu Gly Glu Leu Pro Ser His Met Asp Thr Lys His	Ile Glu Arg Ile		
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50	Pro Met Ala Ser Glu Gln Ala Gln Thr Val Ser	Gln His Leu His Ala		
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	Gly Asp Ala Leu Ser Thr Ile Phe Asn Ala Ala	Gly Leu Asn His Leu		
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25	Phe Ala Ile Asn Ser Tyr Ser Trp Gly Gly Ala Arg Asn Val Ala Met		
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	Glu Val Ser Val Thr Lys Glu Val Asp Gly Ala Ser Glu Asp Leu Leu		
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35	Val Lys Leu Glu Lys Ala Arg Leu Val Ser Tyr Asn Val Ser Gly Thr		
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45	Ser Gln Lys His His Tyr Glu Lys Glu Gly Gly Glu Leu Gln Ser Gly		
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55	<213> V. Anguillarum		
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<223> "Xaa" may be any, other or unknown amino acid

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	Ser Glu Lys Val Asp Leu Glu Glu Arg Glu Phe Thr Gly Ile Asp Lys	50	55	60	
15	Asp Asn Phe Asp Thr Val Met Gly Gln Ile His Pro Arg Leu Ser Tyr	65	70	75	80
20	Lys Val Asp Asn Lys Leu Ala Asn Asp Asp Ser Gln Phe Glu Val Asn	85	90	95	
	Leu Ser Leu Arg Ser Met Lys Asp Phe His Pro Glu Asn Leu Val Asp	100	105	110	
25	Xaa Ile Glu Pro Leu	115			